

FIG. 1A-1 ELEMENT, CONDUCTING POLYMER, PLASTICIZER

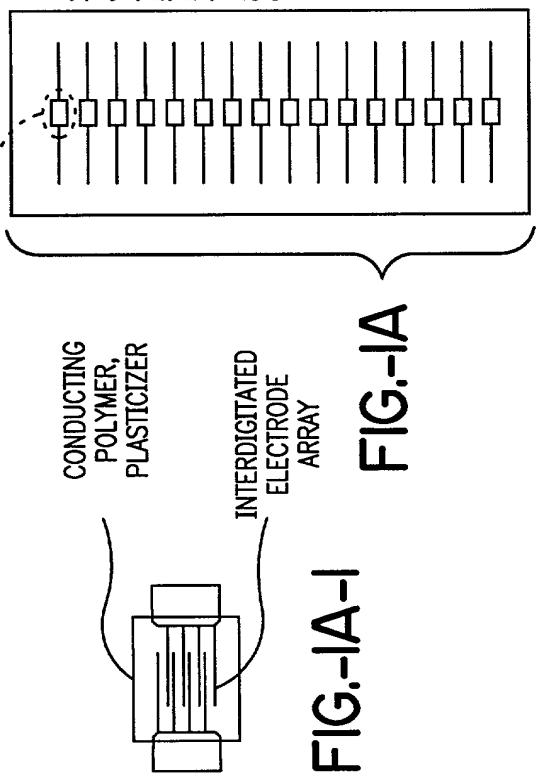
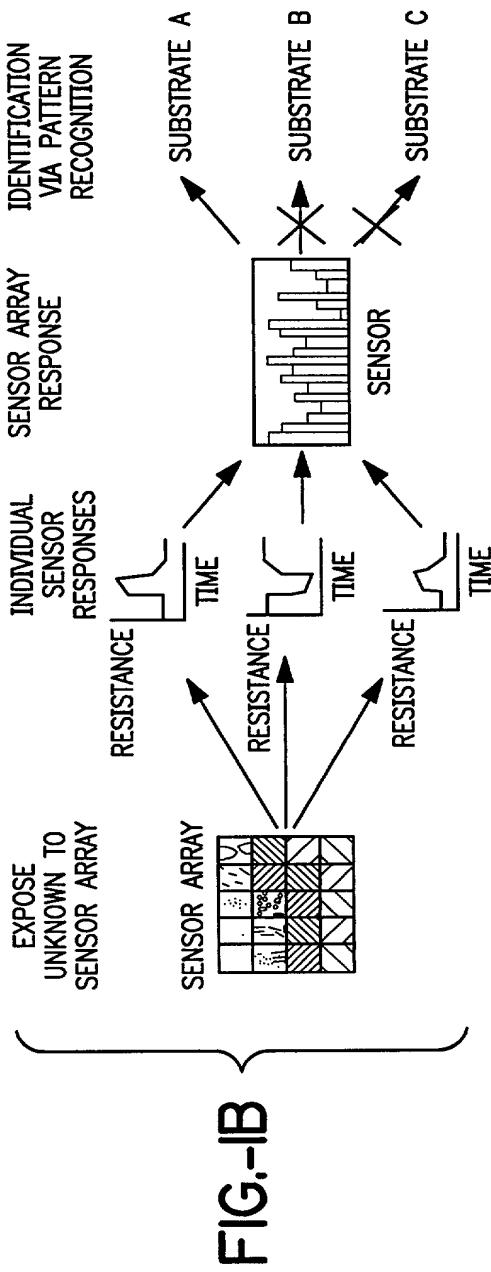


FIG.-1A-1



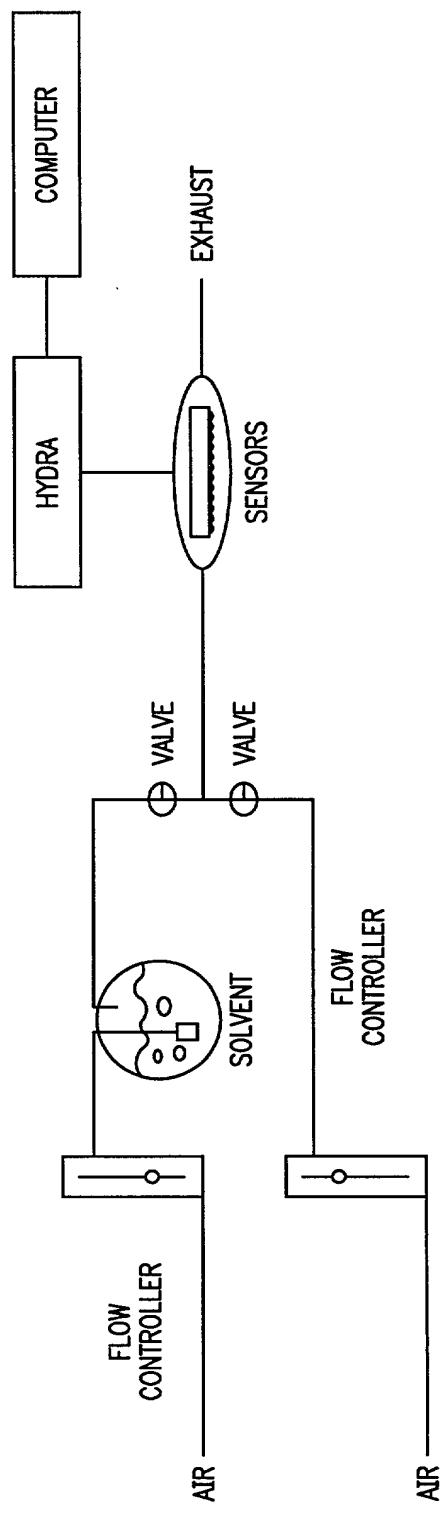


FIG.-IC

FIG. 2



Predicted vs. Experimental pI_{50}

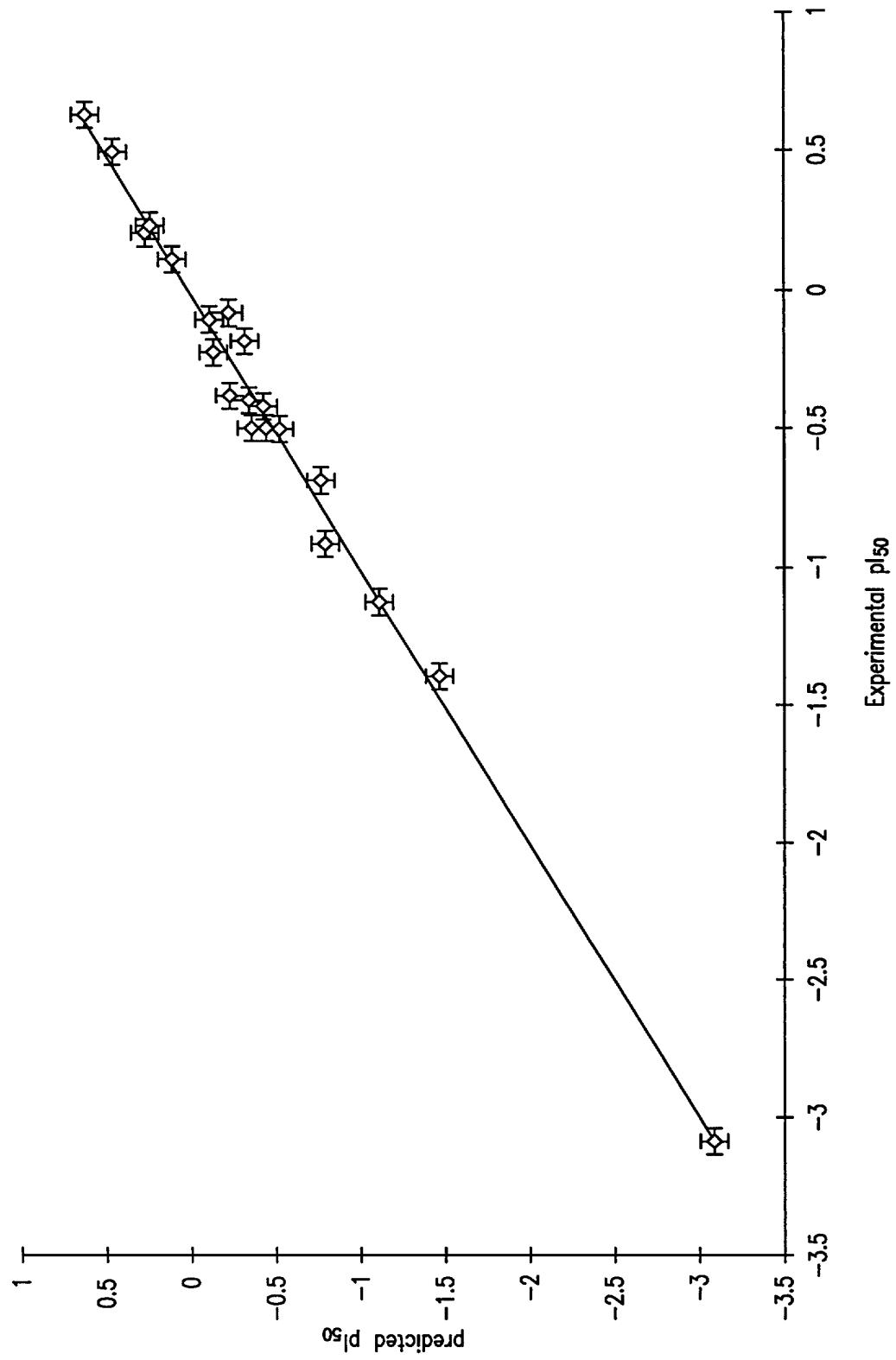


FIG. 3

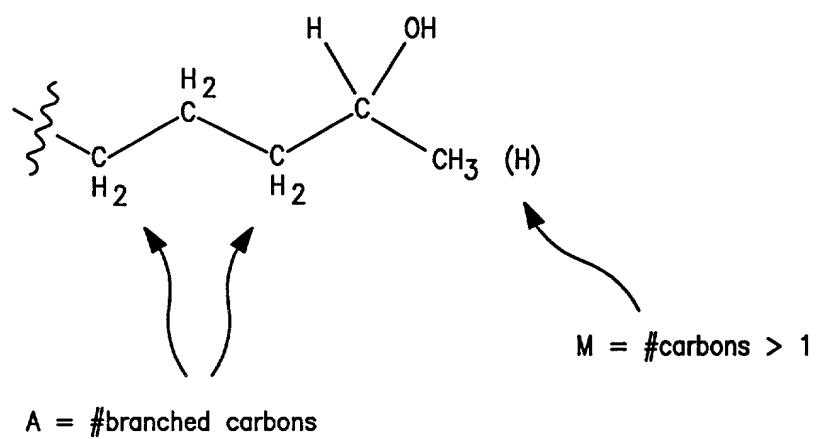


FIG. 4

			polymer name	poly(4-vinylpyridine)
alcohol	experimental 1 psig	run# (bubbler #)	sensor #:	1
1-butanol	-0.05	1 (8)		0.23 (0.08)
1-heptanol	0.68	2 (6)		0.05 (0.1)
1-hexanol	0.54	3 (6)		0.09 (0.08)
1-pentanol	0.27	3 (7)		0.17 (0.1)
1-propanol	-0.48	3 (3)		0.55 (0.14)
2, 4-dimethyl-3-pentan	-1.38	2 (1)		0.05 (0.14)
2-butanol	-0.35	2 (8)		0.2 (0.13)
2-heptanol	0.25	1 (2)		0.13 (0.08)
2-hexanol	0.15	2 (2)		0.16 (0.15)
2-methyl-1-butanol	-0.15	2 (7)		0.04 (0.11)
2-methyl-1-propanol	-0.39	1 (6)		0.12 (0.07)
2-methyl-3-pentanol	-0.89	1 (1)		0.13 (0.09)
2-pentanol	-0.07	3 (8)		0.06 (0.06)
2-propanol	-0.47	1 (7)		0.24 (0.08)
3-hexanol	-0.47	3 (1)		0.07 (0.08)
3-methyl-butanol	-0.19	3 (5)		0.08 (0.08)
3-pentanol	-0.37	2 (4)		0.11 (0.09)
ethanol	-1.1	2 (3)		1.52 (0.15)
menthanol	-3.09	1 (3)		3.71 (0.23)
neopentanol (solid)	-0.67	3 (2)		0.03 (0.1)
benzyl alcohol	0.32	1 (4)		0.06 (0.07)
tert-amyl alcohol	-2.56	1 (5)		0.1 (0.1)
1, 3-propanediol	-1.87	3 (4)		-0.02 (0.1)
1, 4-butanediol	-1.41	2 (5)		-0.01 (0.09)

FIG. 5A

poly(vinyl chloride)	poly(ethylene oxide)	poly(styrene/allyl alcohol)	poly(4-vinylphenol)	poly(vinyl acetate)	ethyl cellulose
2	3	4	5	6	7
0.01 (0.15)	1.83 (0.22)	0.56 (0.08)	0.41 (0.17)	0.11 (0.08)	4.04 (0.2)
0.04 (0.16)	1.9 (0.1)	0.23 (0.02)	0.08 (0.11)	-0.07 (0.05)	4.28 (0.21)
0.03 (0.16)	1.76 (0.04)	0.45 (0.05)	0.11 (0.09)	-0.08 (0.05)	5.32 (0.18)
-0.03 (0.13)	1.63 (0.02)	0.58 (0.05)	0.16 (0.1)	0.02 (0.04)	4.97 (0.14)
-0.03 (0.19)	1.18 (0.01)	0.57 (0.04)	0.7 (0.09)	0.2 (0.03)	3.17 (0.14)
-0.02 (0.13)	2 (0.06)	0.17 (0.02)	0.1 (0.11)	0 (0.03)	4.94 (0.25)
-0.06 (0.12)	1.35 (0.04)	0.65 (0.1)	0.29 (0.23)	0.14 (0.05)	3.89 (0.29)
-0.04 (0.09)	2.89 (0.54)	0.28 (0.04)	0.11 (0.13)	-0.09 (0.05)	4.76 (0.18)
0.01 (0.15)	1.69 (0.09)	0.37 (0.03)	0.17 (0.11)	-0.05 (0.03)	5.1 (0.31)
0.02 (0.12)	1.74 (0.05)	0.34 (0.04)	0.16 (0.14)	-0.01 (0.04)	4.76 (0.27)
0.01 (0.12)	1.84 (0.15)	0.48 (0.08)	0.28 (0.14)	0.1 (0.03)	3.98 (0.2)
0.06 (0.11)	2.34 (0.33)	0.29 (0.05)	0.19 (0.11)	-0.03 (0.04)	5.24 (0.26)
-0.03 (0.13)	1.41 (0.02)	0.57 (0.07)	0.14 (0.09)	0 (0.07)	4.9 (0.19)
0.13 (0.14)	1.58 (0.23)	0.57 (0.06)	0.62 (0.17)	0.14 (0.06)	3.31 (0.31)
0.01 (0.13)	1.57 (0.03)	0.4 (0.04)	0.07 (0.08)	-0.06 (0.05)	5.56 (0.23)
0.03 (0.08)	1.49 (0.02)	0.39 (0.03)	0.07 (0.07)	0.01 (0.04)	4.82 (0.13)
0.08 (0.15)	1.52 (0.04)	0.55 (0.06)	0.16 (0.13)	-0.01 (0.05)	4.83 (0.41)
0.19 (0.14)	1.08 (0.02)	0.59 (0.05)	2.19 (0.17)	0.31 (0.03)	2.19 (0.14)
0.57 (0.12)	1.33 (0.1)	0.55 (0.03)	2.51 (0.21)	0.4 (0.07)	1.82 (0.22)
0 (0.18)	1.37 (0.04)	0.14 (0.03)	-0.01 (0.05)	0.02 (0.03)	3.28 (0.2)
0.04 (0.13)	3.05 (0.91)	0.22 (0.03)	0.1 (0.07)	-0.03 (0.05)	2.07 (1.01)
-0.07 (0.14)	1.77 (0.24)	0.39 (0.07)	0.26 (0.14)	0.06 (0.05)	3.91 (0.29)
0.04 (0.12)	0.17 (0.02)	0.06 (0.02)	-0.01 (0.05)	0.01 (0.03)	0.4 (0.19)
-0.01 (0.15)	0.19 (0.2)	0.06 (0.06)	0.04 (0.06)	-0.02 (0.04)	0.81 (0.68)

FIG. 5B

poly(N-vinylpyrrolidone)	poly(ethylene/acrylic acid)	poly(ethylene/vinyl acetate)	poly(methyl methacrylate)	poly(methylvinylether/maleic anhydride)	1,2polybutadiene
8	9	10	11	12	13
0.31 (0.7)	1.65 (0.14)	0.74 (0.1)	0 (0.02)	-0.01 (0.01)	0.23 (0.1)
0.52 (0.84)	1.66 (0.09)	0.69 (0.04)	0.01 (0.03)	0 (0.01)	0.3 (0.02)
-0.07 (0.6)	1.84 (0.05)	0.73 (0.02)	0.01 (0.03)	-0.01 (0.02)	0.28 (0.01)
0.67 (0.58)	1.7 (0.03)	0.67 (0.01)	0.01 (0.02)	0 (0.02)	0.21 (0.01)
1.08 (0.82)	1.07 (0.02)	0.4 (0.02)	0.01 (0.03)	-0.02 (0.02)	-0.03 (0.01)
0.11 (0.61)	2.49 (0.05)	2.42 (0.09)	0.02 (0.02)	0.03 (0.02)	1.19 (0.04)
0.23 (0.68)	1.62 (0.03)	0.76 (0.04)	0 (0.03)	-0.02 (0.01)	0.26 (0.01)
0.23 (0.99)	1.91 (0.06)	0.99 (0.04)	0 (0.03)	0.01 (0.03)	0.45 (0.02)
0.77 (0.42)	1.97 (0.05)	0.92 (0.03)	-0.01 (0.02)	0.1 (0.02)	0.45 (0.01)
0.09 (0.73)	1.82 (0.04)	0.91 (0.03)	-0.01 (0.02)	-0.01 (0.01)	0.41 (0.01)
0.47 (0.59)	1.65 (0.1)	0.78 (0.08)	0 (0.02)	-0.04 (0.02)	0.28 (0.07)
0.76 (0.61)	2.17 (0.02)	1.59 (0.04)	0 (0.03)	0.08 (0.02)	0.75 (0.02)
0.68 (0.55)	1.77 (0.02)	0.82 (0.02)	-0.01 (0.02)	0 (0.01)	0.34 (0.01)
0.4 (0.88)	1.45 (0.07)	0.63 (0.04)	0 (0.02)	-0.04 (0.03)	0.16 (0.05)
0.02 (1.03)	1.81 (0.04)	1.07 (0.01)	0.01 (0.02)	0.01 (0.02)	0.51 (0.01)
0.08 (0.83)	1.77 (0.02)	0.75 (0.02)	-0.01 (0.04)	-0.04 (0.02)	0.36 (0.01)
-0.13 (0.81)	1.79 (0.03)	1.03 (0.04)	-0.01 (0.01)	-0.01 (0.02)	0.43 (0.01)
4.03 (0.74)	0.78 (0.3)	0.2 (0.04)	0.14 (0.03)	-0.03 (0.02)	-0.13 (0.03)
7.76 (0.78)	0.69 (0.03)	0.15 (0.04)	0.57 (0.03)	0.52 (0.05)	-0.01 (0.01)
-0.13 (0.79)	1.54 (0.05)	0.94 (0.03)	0 (0.03)	0 (0.02)	0.42 (0.01)
-0.1 (0.59)	0.58 (0.34)	0.33 (0.17)	-0.01 (0.02)	-0.04 (0.02)	0.11 (0.08)
0.35 (0.62)	2.05 (0.12)	1.04 (0.08)	0 (0.02)	-0.03 (0.02)	0.47 (0.06)
-0.39 (0.8)	0.06 (0.01)	0.02 (0.02)	-0.01 (0.04)	-0.03 (0.02)	0.02 (0.01)
-0.09 (0.79)	0.14 (0.15)	0.05 (0.05)	-0.01 (0.02)	-0.03 (0.02)	0.03 (0.02)

FIG. 5C

poly(styrene/ acrylonitrile)	poly(methyl/octadecy- isoxane)	poly(vinyl butyral)	poly(ethylene glycol)	poly(2,4,6- tribromostyrene)	polystyrene
15	16	17	18	19	20
0 (0)	0.42 (0.02)	1.14 (0.27)	2.37 (0.25)	0.12 (0.06)	-0.46 (0.73)
0 (0)	0.41 (0.03)	0.45 (0.22)	1.23 (0.14)	0.01 (0.02)	-0.01 (0.82)
0 (0)	0.49 (0.02)	0.89 (0.14)	1.79 (0.08)	0.04 (0.03)	0.23 (0.94)
0.01 (0)	0.46 (0.02)	1.04 (0.18)	1.95 (0.06)	0.07 (0.06)	-0.21 (0.8)
0.02 (0)	0.28 (0.02)	1.15 (0.2)	2.12 (0.11)	0.25 (0.04)	0.47 (0.59)
0 (0.01)	0.72 (0.02)	0.54 (0.21)	1.85 (0.04)	0.01 (0.02)	-0.29 (0.69)
0 (0)	0.4 (0.02)	1.03 (0.23)	1.95 (0.09)	0.13 (0.02)	0.17 (0.32)
0 (0)	0.49 (0.03)	0.62 (0.19)	2.13 (0.49)	0.03 (0.01)	-0.03 (0.32)
0.01 (0)	0.51 (0.01)	0.77 (0.21)	1.73 (0.11)	0.03 (0.02)	0.08 (0.76)
0 (0.01)	0.45 (0.02)	0.77 (0.24)	2.08 (0.11)	0.03 (0.03)	0.15 (0.84)
0 (0)	0.41 (0.02)	1.01 (0.21)	2.41 (0.19)	0.09 (0.05)	0.2 (0.5)
0.01 (0)	0.59 (0.02)	0.7 (0.2)	2.34 (0.25)	0.03 (0.03)	-0.09 (0.84)
0 (0)	0.45 (0.02)	1.03 (0.28)	1.85 (0.07)	0.07 (0.05)	-0.12 (0.79)
0 (0)	0.36 (0.03)	1.15 (0.17)	2.34 (0.29)	0.14 (0.04)	-0.04 (0.47)
0 (0)	0.53 (0.02)	0.87 (0.2)	1.63 (0.1)	0.06 (0.08)	-0.12 (0.74)
0 (0)	0.42 (0.02)	0.9 (0.12)	1.85 (0.06)	0.03 (0.03)	-0.09 (0.73)
0 (0)	0.5 (0.03)	0.96 (0.31)	1.85 (0.1)	0.07 (0.04)	0.14 (0.71)
0.17 (0.01)	0.23 (0.02)	1.44 (0.25)	2.14 (0.1)	0.42 (0.04)	-0.11 (0.63)
0.62 (0.03)	0.21 (0.02)	1.58 (0.25)	2.78 (0.2)	0.27 (0.03)	0.11 (0.7)
0 (0)	.034 (0.02)	0.39 (0.2)	1.75 (0.07)	0.01 (0.03)	-0.21 (0.56)
0 (0)	0.17 (0.11)	0.34 (0.26)	1.36 (0.48)	0.01 (0.04)	-0.5 (0.76)
0 (0)	0.46 (0.01)	0.74 (0.16)	2.26 (0.23)	0.08 (0.03)	0.09 (0.48)
0 (0)	0.01 (0.02)	0.09 (0.18)	0.09 (0.09)	0 (0.13)	0.04 (0.78)
0 (0.01)	0.04 (0.04)	0 (0.14)	0.13 (0.13)	0.01 (0.03)	-0.32 (0.87)

FIG. 5D